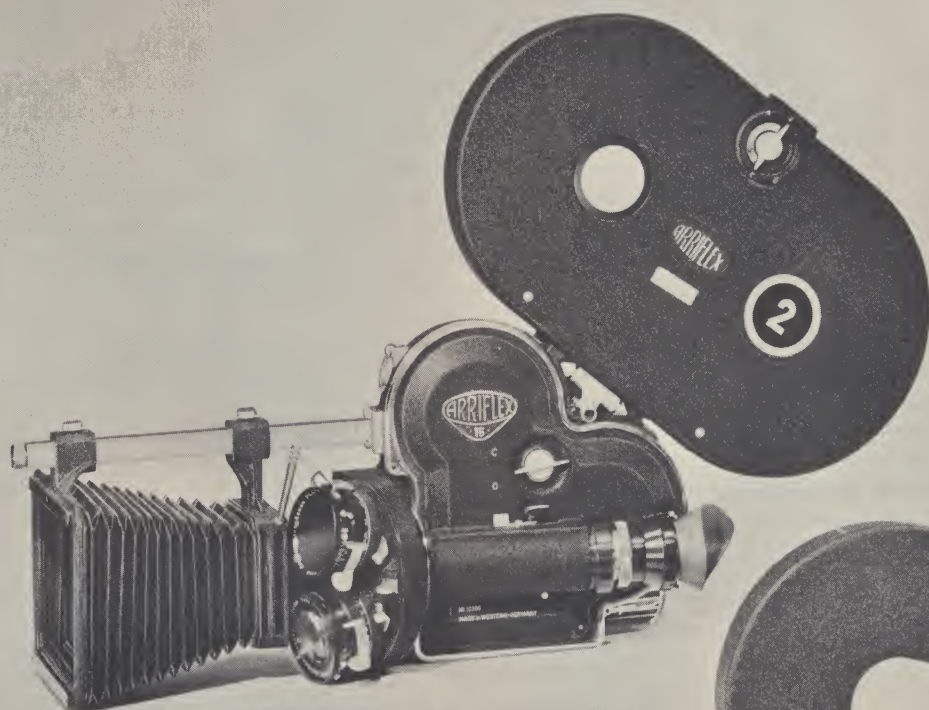
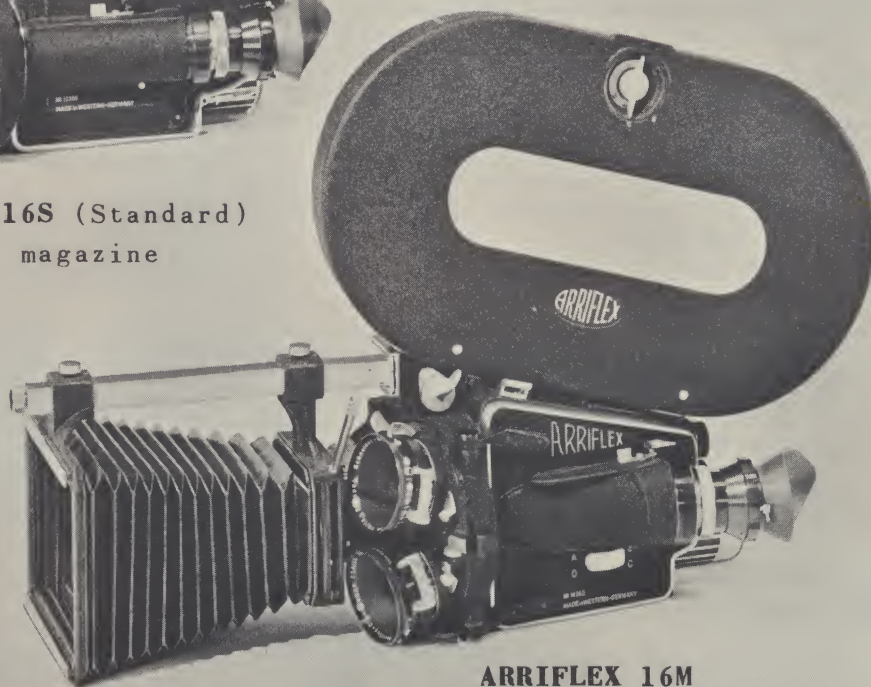


INTRODUCING AN ADDITION TO THE MOST
VERSATILE LINE OF PROFESSIONAL
MOTION PICTURE CAMERAS



ARRIFLEX 16S (Standard)
With 400' magazine



ARRIFLEX 16M
With 400' magazine

THE NEW
.....

ARRIFLEX® 16M
.....

zine has to be threaded into the film gate. This design has proven itself for more than 20 years on our Arriflex-35 and it permits quick magazine interchange without the serious disadvantage of other types of cassettes which contain the rear pressure plate pad of the film gate.

Changing the magazine is particularly simple and handy on the Arriflex-16M. It is not necessary to align the drive gears of camera and magazine, as the camera gear is spring loaded and will engage itself automatically when the camera is switched on. The magazine camera lock is very solid and is secured against accidental opening. Initially, the following interchangeable magazines will be available: 200 ft., 400 ft., 1200 ft.

The 200 ft. and 400 ft. magazines for reasons of compactness and light weight are of the single compartment, displacement type and accept 200 ft. and 400 ft. darkroom loads on plastic cores. 200 ft. darkroom loads are standard in Europe but, unfortunately, not yet in the United States. We understand that most American film manufacturers will deliver 200 ft. core-wound loads on special order. We hope that this new camera will create enough demand to make this size a standard here, too.

The 200 ft. magazine also accepts 100 ft. daylight spools; the 400 ft. magazine,

This diagram shows the exploded view of a 16mm movie camera. The components are labeled as follows:

- a**: The front lens assembly, including the lens element and its housing.
- b**: The main body of the camera, which houses the internal mechanisms.
- c**: The viewfinder, which allows the operator to see the scene being filmed.
- d**: The release button, used to start and stop the camera's operation.
- e**: The motor, which provides the power for the camera's internal mechanisms.
- f**: The top cover, which protects the internal mechanisms from dust and damage.

Arriflex-16M with permanently hinged door in open position and 200 ft. magazine attached. a) Automatic re-set for buckle switch activated by opening camera door, b) Film loop (sprockets are in magazine), c) Buckle switch, d) Cannon outlet for battery cable, e) Three additional outlets, from top to bottom, one for: Connection, paralleling power cable; outlet for special custom wiring; connection for 60 cycle, synch signal generator, f) Magazine lock.

RIFLEX® 16M

200 ft. daylight spools.

The 200 ft. and 400 ft. magazines are factory equipped for forward and backward operation and automatically change their internal drive mechanism when the camera is reversed.

The 1200 ft. magazine is of special interest because it is a double compartment type, more compact and smaller in size than any previously known magazine of its capacity. Its design places feed and take-up alongside each other, on a common axis, instead of the usual configuration. Because of this design, the camera with magazine is still very maneuverable, small and lightweight. We know that many of our industrial and military customers will be particularly pleased in this respect. The 1200 ft. magazine is normally supplied for forward filming only but can be equipped for forward and reverse running on special request at extra charge.

BUILDING BLOCK CONSTRUCTION

Another significant feature of the Arriflex-16M is its basic concept of building block construction. Not only magazines and lenses, but also matte-box, motors, finder ground glass, finder eyepieces, single frame motors, etc., etc., are easily interchangeable. This permits the camera to be adapted instantly for many specialized applications in indus-

trial, scientific, medical, documentary or military filming. This is all the more significant because, with the exception of the magazines, practically all of the above components are interchangeable between the Arriflex-16 and the Arriflex-16M.

SYNCHRONOUS SOUND FILMING

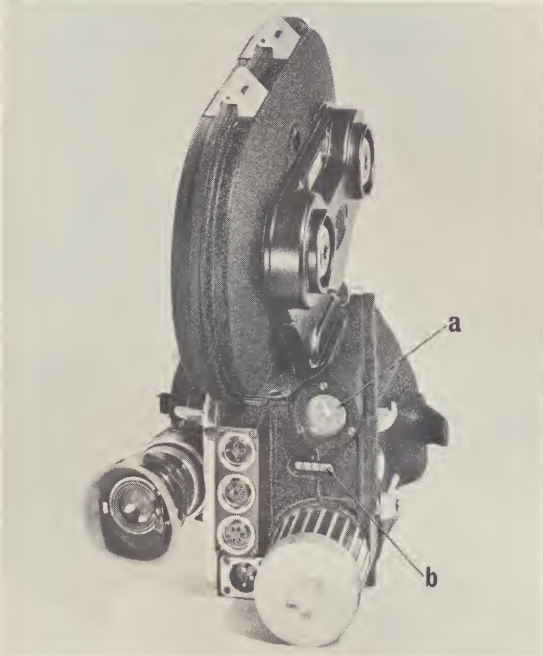
For synchronous sound filming, the following features and accessories are provided:

A 60 cycle signal generator and automatic electric slate system are incorporated into every Arriflex-16M camera at the factory. Thus the 16M is fully equipped for synchronous sound recording with 1/4" tape recorders, and meets the requirements for all the tape synchronous sound recording systems in common use. The signal generator is connected by means of a 5 pole contact on the rear of the camera.

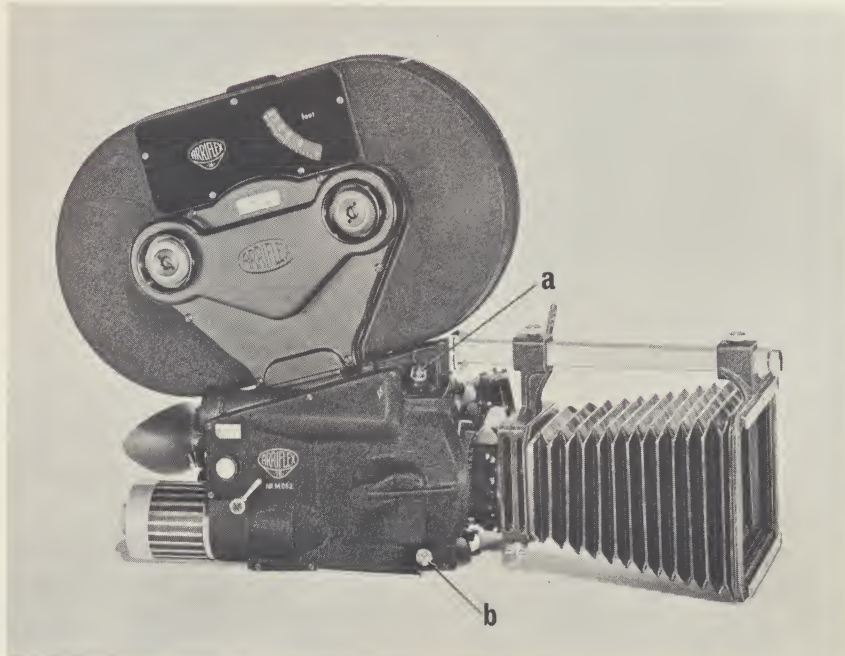
A very compact, governor controlled DC motor is available for such work. It is made to run at 24 or 25 FPS. Its tolerance is $\pm 1\%$, well within all requirements. A regular 110 volt, 60 cycle synchronous motor will also be available.

SOUND BLIMPS

Two sound blimps are planned: A lightweight fiberglass blimp for location work and a sound stage blimp made of aluminum alloy castings with heavy layers of sound proof linings and many other precision features.



Arriflex-16M with 200 ft. magazine attached. Rear View. Note arrangements of all control instruments within easy view of operator. a) Tachometer, b) Footage and frame counter.



Arriflex-16M with 400 ft. magazine attached, drive side, a) and b) control lights for synch signal generator and automatic, electric start mark.

Both blimps have interchangeable top sections to match the various magazines available. A version of the fiberglass blimp will be available for the standard Arriflex-16, too.

NEW IMPROVED FINDER OPTICS

While the mirror-shutter reflex system of the Arriflex-16M is essentially the same as on the Arriflex-16, the mechanical execution has been further advanced. Here we refer particularly to the new camera door with its sturdy double hinges and quick lock. Solid in dimension but with precision tolerances, it made it possible to transfer the reflex finder prism from the interior of the camera to the camera door. This facilitates cleaning of the surface of prism and field lens.

The ground glass screen is interchangeable and there are available a variety of types engraved with center cross, TV cut-off, clear center or completely clear, depending upon applications. All ground glasses are precision ring mounted and have identical focal planes when interchanged.

LARGEST LENS SELECTION

As far as taking lenses are concerned, the same selection of many dozens of optics of the best manufacturers in the world which have been created for the Arriflex-16, will also fit the Arriflex-16M. Our lens program extends from 5.7mm extreme wide angle lens to telephotos of practically limitless focal length, from special Makro Lenses to varifocal lenses with a 10X ratio, zooming from 12 to 120mm.

PROVEN FEATURES MAINTAINED

Many well proven features of the Arriflex-16 have been maintained, such as mirror-shutter reflex system, divergent 3-lens turret, and film transport mechanism with registration pin movement. The film travel in the Arriflex-16M differs only as far as the magazine feature is concerned. The claw and registration pin mechanism and the film gate design are identical in both cameras. The 16M will film equally well forward or reverse. It is necessary only to set the forward-reverse switch on the camera drive motor. The magazine take-up and feed mechanisms will automatically conform. Forward and reverse operation are offered by both the variable speed motor and synchronous motor. (The governor controlled DC motor runs forward only.)

ELECTRICAL CONNECTIONS

All electrical connections are located in the rear of the camera. The battery cable terminates in a 3 pole, self-locking Cannon plug. The standard camera motor is designed - compatible with the Arriflex-16 - for 8 volt DC. The synchronous motor for the new Arriflex-16M operates directly from the 115 volt AC power line. The 60 cycle synchronous signal, previously mentioned, terminates in an outlet at the rear of the camera. On the same small panel, we have also provided a 3 pole outlet which is connected in parallel to the camera DC power circuit. There is also provided a third outlet which may have from 2 to 12 pins and which may be custom wired for special purposes, such as may be required, for instance, in some photo instrumentation applications. These special outlets are all equipped with locks.

OTHER FEATURES

The Tachometer and footage counter are also located in the rear, clearly arranged for easy viewing by the operating cameraman. The four digit counter records footage as well as frames.

A buckle-switch with manual override automatically stops the camera in case of film jam, and also functions as an end switch.

The weight of the Arriflex-16M with DC motor, a 25mm lens and 200 ft. magazine, is under 11 pounds. With 400 ft. magazine, less than 12 pounds. With 1200 ft. magazine, about 14-1/2 pounds. In each case, the weight is stated without film in the magazine.

The standard motor will run from 4 to 50 FPS. The standard single frame attachment permits exposure time from 1/7th second. Modifications to suit customers' needs are possible.

Many versatile accessories presently available and still to follow, permit the Arriflex-16M to be used for many specialized applications.

A SYSTEM CAMERA

The new Arriflex-16M is certain to become another important tool for our cinematographer friends and customers all over the world. Like its older brother, the Arriflex-16M has been planned as a system camera which is able to grow with the demands of the future.

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